

## Chassis for 458 Control Modules

The Digidim 458Mx is a range of mechanical chassis to which one, two or three Digidim 458 series Control Modules can be fitted to provide up to 24 channels of control. Each load channel is protected by an individual MCB.

Each chassis contains 1, 2 or 3 sections, depending on module size selected, and has either 4 or 8 load circuit MCBs, depending on the variant. Each chassis section has a control circuit MCB, and a set of output terminals for the connection of load wiring.

The Chassis Module may be fully installed and wired prior to fitting of the Control Module(s) as the chassis are supplied with control module by-pass connectors. This allows for all electrical installation, testing and powering up of the lighting circuits to be carried out, prior to the fitting of the Control Modules. This prevents possible damage to the Control Modules due to load circuit overload or faults, or the use of high voltage insulation testing equipment.

A 458M1 may be fitted with a single Control Module. A combination of up to 2 Control Modules may be used with the 458M2, and up to 3 Control Modules with a 458M3 Chassis. Available Control Module types are DIM4, DIM8, CTR8 and SW8.

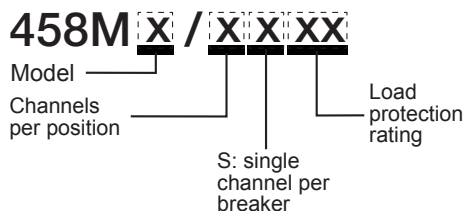
Note: Chassis Modules are supplied without control modules. Suitable control modules are ordered separately to suit the particular load type.

### Key Features

- Wall-mounted vertically; installer-friendly.
- Modular system
  - Lights and wiring can be tested, then control modules fitted.
  - Control modules simple to attach and remove.

### Part numbers

The 458Mx offers a large numbers of configuration options. Contact your local Helvar representative to discuss specific requirements.

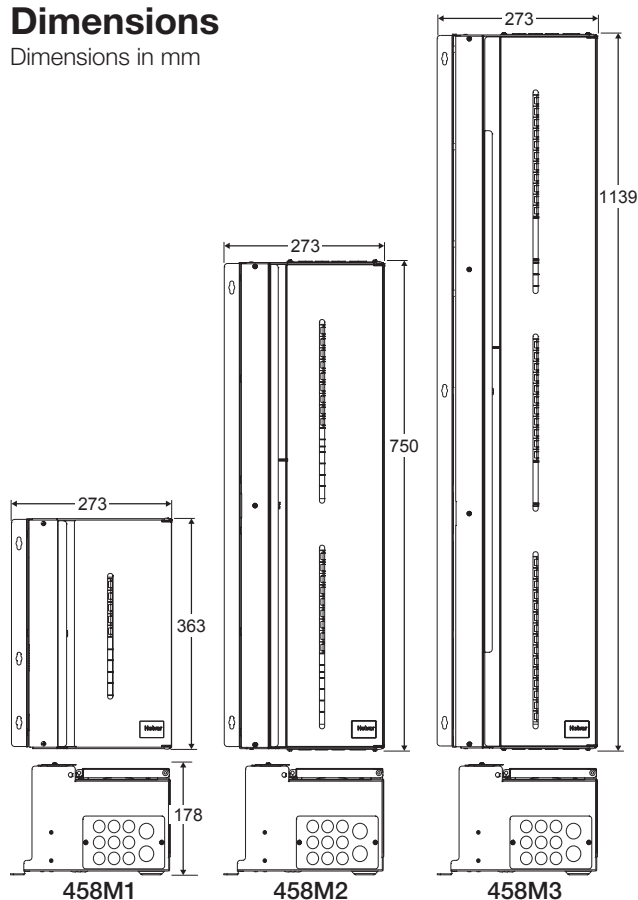


### Example configurations

Part number	Position in chassis	No. of channels	Load protection
458M1/4S10	Position A	4	10 A
458M2/8S068S06	Position A	8	6 A
	Position B	8	6 A
458M3/4S068S068S10	Position A	4	6 A
	Position B	8	6 A
	Position C	8	10 A

### Dimensions

Dimensions in mm

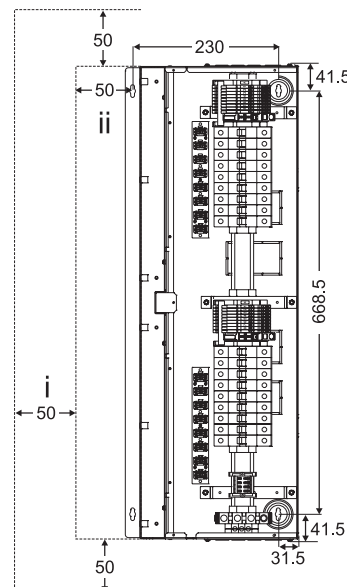


### Installation: mounting and clearance

Mount the chassis vertically on a flat surface.

- Mount chassis on wall using:
  - 4 screws (458M1 and 458M2), or 6 screws (458M3).
- Ensure enough space is left for ventilation and for attaching module(s): 50 mm above, below and to the right of the chassis, and 100 mm to the left. Refer to the 458Mx Installation Guide.

Leave sufficient clearance to allow cables and trunking to be connected. The 458M2 is shown here as an example:



## Technical Data

### Power

#### Mains supply

voltage: 230 VAC / 400 VAC

Protection: MCB type C 10 kA. Rating as specified for individual units.

Supply current: 458M1, 458M2, 458M3 = 63 A (max) for each position (e.g. Positions A and B for 458M2)  
Single phase use = 125 A (max)

*Note: Supplying multiple blocks of MCBs on the same phase requires this limit because of the neutral connection.*

### Conformity and Standards

Safety: EN 60439

IP rating: IP20

Environmental: Complies with WEEE and RoHS directives

### Installation

Mounting: Vertically wall mounted: 4.5 mm mounting holes. Use No. 8 or No. 10 screws with head diameter of 6 mm to 9 mm.

Refer to mounting dimensions and clearance diagrams in *458Mx Installation Guide*.

### Mechanical Data

Dimensions: See diagrams.

Weight: 458M1: 5.9 kg (458M1 including 9 MCBs)

458M2: 12.2 kg (458M2 including 18 MCBs)

458M3: 18.0 kg (458M3 including 27 MCBs)

### Operating and Storage Conditions

Ambient Temp: 0°C to 40°C

Relative Humidity: Max 90%, non-condensing








Storage Temp: -10°C to 70°C

### Cable Requirements

For details of cable type and strip length for the mains supply, channel outputs and SDIM and DMX, refer to the *458Mx Installation Guide*.

### SDIM Cable Loom

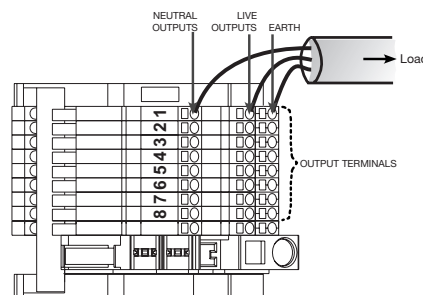
An SDIM cable loom is attached to the DIN-rail inside the chassis. This can be connected to the SDIM terminals of the control module(s), to enable connection of the module(s) to a Helvar Imagine system. For details, refer to the *458Mx Installation Guide*.

-  For further information see [www.helvar.com](http://www.helvar.com)
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*Data subject to change without notice*

## Connections

### Load Connections: detail



### Mains and Load Connections

458M3 shown as an example:

